Connecting via Winsock to STN

```
=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                                  0.21         0.21


FILE 'REGISTRY' ENTERED AT 10:42:55 ON 18 AUG 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   17 AUG 2004   HIGHEST RN 727974-89-2
DICTIONARY FILE UPDATES:  17 AUG 2004   HIGHEST RN 727974-89-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased.   See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> logoff hold
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                                  0.42         0.63


  SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:43:43 ON 18 AUG 2004

Connecting via Winsock to STN




Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:48:08 ON 18 AUG 2004
FILE 'REGISTRY' ENTERED AT 10:48:08 ON 18 AUG 2004
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COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                                  0.42         0.63

=>
Uploading C:\Examination Auxillary files\10731123\10731123 compound.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1                 STR
```
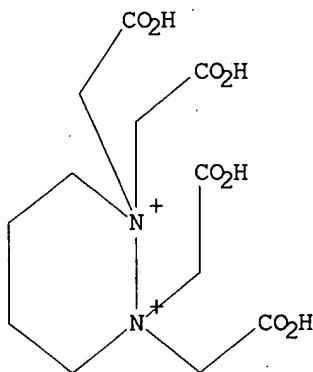
Structure attributes must be viewed using STN Express query preparation.


```
=> search l1 sss sam
SAMPLE SEARCH INITIATED 10:48:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:             0 TO        0
PROJECTED ANSWERS:                0 TO        0

L2              0 SEA SSS SAM L1

=> search l1 sss full
FULL SEARCH INITIATED 10:48:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L3              0 SEA SSS FUL L1

=>
Uploading C:\Examination Auxillary files\10731123\10731123 compound wout charge.str

L4      STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4                  STR
```
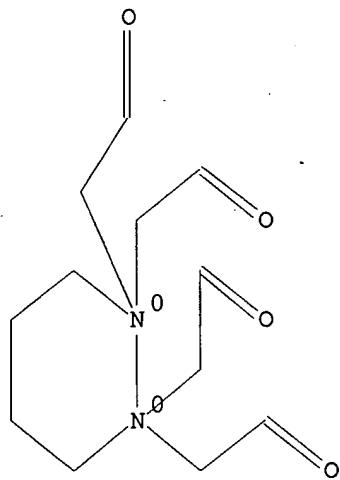
Structure attributes must be viewed using STN Express query preparation.


```
=> search l4 sss sam
SAMPLE SEARCH INITIATED 10:52:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED        0 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE  **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO .       0
PROJECTED ANSWERS:               0 TO         0

L5              0 SEA SSS SAM L4

=> search l4 sss full
FULL SEARCH INITIATED 10:52:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L6              0 SEA SSS FUL L4

=>
Uploading C:\Examination Auxillary files\10731123\10731123 right compound  core
wout charge.str

L7      STRUCTURE UPLOADED

=> d l7
L7 HAS NO ANSWERS
L7                 STR
```
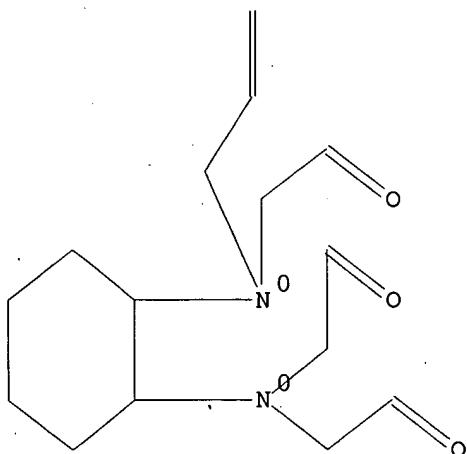
Structure attributes must be viewed using STN Express query preparation.


```
=> search 17 sss sam
SAMPLE SEARCH INITIATED 10:54:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      44 TO ITERATE

100.0% PROCESSED        44 ITERATIONS                        7 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:             483 TO      1277
PROJECTED ANSWERS:                  7 TO       298

L8              7 SEA SSS SAM L7

=> d scan

L8    7 ANSWERS    REGISTRY   COPYRIGHT 2004 ACS on STN
IN    Glycine, N,N'-(4-bromo-1,2-cyclohexanediyl)bis[N-(carboxymethyl)- (9CI)
MF    C14 H21 Br N2 O8
```
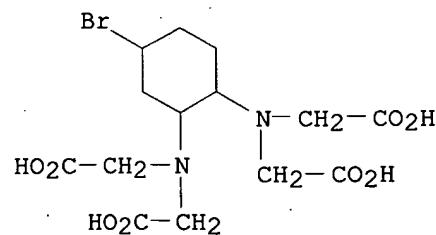

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

```
=>
```

Uploading C:\Examination Auxillary files\10731123\10731123 right fixed Hcompound core wout charge.str

L9 ·   STRUCTURE UPLOADED

=> d 19
L9 HAS NO ANSWERS
L9   STR
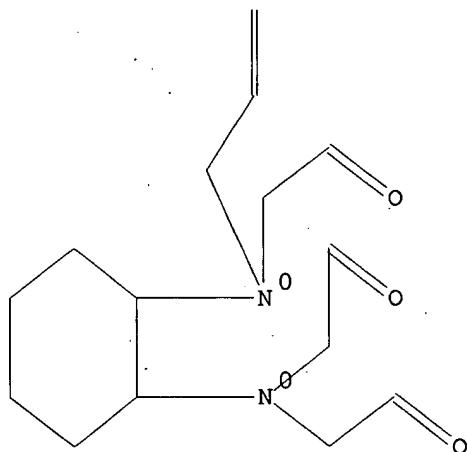
Structure attributes must be viewed using STN Express query preparation.

=> search 19 sss sam
SAMPLE SEARCH INITIATED 10:57:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   44 TO ITERATE

100.0% PROCESSED   44 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 483 TO   1277
PROJECTED ANSWERS: 3 TO   163

L10   3 SEA SSS SAM L9

=> d scan

L10 3 ANSWERS   REGISTRY COPYRIGHT 2004 ACS on STN
IN   Glycine, N,N'-1,2-cyclohexanediylbis[N-(carboxymethyl)-, dipotassium salt,
     trans- (9CI)
MF   C14 H22 N2 O8 . 2 K

Relative stereochemistry.
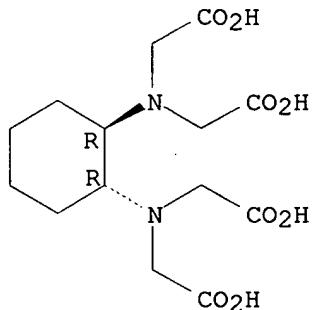
$\bullet$2 K

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L10 3 ANSWERS   REGISTRY COPYRIGHT 2004 ACS on STN
IN   Glycine, N,N'-1,2-cyclohexanediylbis[N-[2-(dimethylamino)-2-oxoethyl]-,
      trans-, compd. with N-methylmethanamine (1:2) (9CI)
MF   C18 H32 N4 O6 . 2 C2 H7 N

      CM   1

Relative stereochemistry.
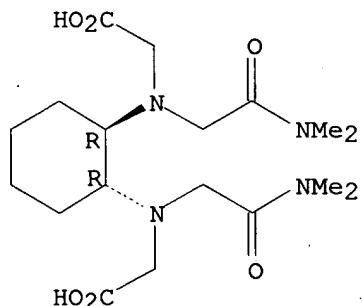
      CM   2

H3C—NH—CH3

L10 3 ANSWERS   REGISTRY COPYRIGHT 2004 ACS on STN
IN   Glycine, N-[2-[(2-aminoethyl)amino]-2-oxoethyl]-N-[(1R,2R)-2-
      [bis(carboxymethyl)amino]cyclohexyl]-, rel- (9CI)
MF   C16 H28 N4 O7
CI   COM

Relative stereochemistry.
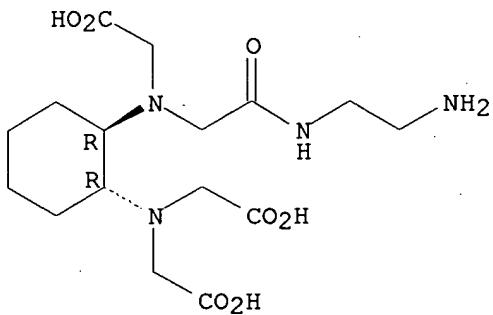
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED


```
=> search 19 sss full
FULL SEARCH INITIATED 10:58:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    902 TO ITERATE

100.0% PROCESSED     902 ITERATIONS                        115 ANSWERS
SEARCH TIME: 00.00.01

L11         115 SEA SSS FUL L9

=> e chloroacetic acid/cn
E1          1      CHLOROACETIC 2-(ETHOXYCARBONYL)HYDRAZIDE/CN
E2          1 -->  CHLOROACETIC ACETIC ANHYDRIDE/CN
E3          1 -->  CHLOROACETIC ACID/CN
E4          1      CHLOROACETIC ACID (1R,2S,5R)-5-METHYL-2-(1-METHYLETHYL)CYCLO
                   HEXYL ESTER/CN
E5          1      CHLOROACETIC ACID 1',2',4'-TRIMETHYLPENT-2'-ENYL ESTER/CN
E6          1      CHLOROACETIC ACID 1,1-DIMETHYLETHYL ESTER/CN
E7          1      CHLOROACETIC ACID 1-(2,2-DIMETHYL-1-OXOPROPYL)-1H-INDOL-6-YL
                    ESTER/CN
E8          1      CHLOROACETIC ACID 3,5-DICHLOROANILIDE/CN
E9          1      CHLOROACETIC ACID 4-CHLOROANILIDE/CN
E10         1      CHLOROACETIC ACID ANHYDRIDE/CN
E11         1      CHLOROACETIC ACID BENZYL ESTER/CN
E12         1      CHLOROACETIC ACID CESIUM SALT (2:1)/CN

=> e3
L12         1 "CHLOROACETIC ACID"/CN

=> file caplus
COST IN U.S. DOLLARS                             SINCE FILE       TOTAL
                                                   ENTRY         SESSION
FULL ESTIMATED COST                               477.41         477.62

FILE 'CAPLUS' ENTERED AT 10:59:12 ON 18 AUG 2004
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FILE COVERS 1907 - 18 Aug 2004 VOL 141 ISS 8
FILE LAST UPDATED: 17 Aug 2004 (20040817/ED)

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.

=> 111
L13   1731 L11

=> 112
L14   8864 L12

=> 113 and 114
L15 .   7 L13 AND L14

=> d 115 1-7 ti fbib abs

L15 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
TI   Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid for
     use as stabilizer for hydroxylamine compounds
AN   2004:493595 CAPLUS
DN   141:23905
TI   Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid for
     use as stabilizer for hydroxylamine compounds
IN   Ward, Irl E.; French, Danielle Anne
PA   USA
SO   U.S. Pat. Appl. Publ., 5 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI US 2004116735	A1	20040617	US 2002-320082		20021216
EP 1431276	A1	20040623	EP 2003-27356		20031127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
			US 2002-320082	A	20021216
JP 2004196796	A2	20040715	JP 2003-414120		20031212
			US 2002-320082	A	20021216

AB   The invention relates to the preparation of ultra-high purity
     1,2-diaminocyclohexanetetraacetic acid (CDTA) which is essentially free of
     unwanted metal and metal ion contaminants and its use as a stabilizer for
     ultra-high purity hydroxylamine compds. used extensively in the production of
     high premium electronic components. The process for the preparation of CDTA
     comprising the steps of: (a) neutralizing chloroacetic acid in an aqueous
     medium with a non-metal amino or hydroxy base compound at < 10°C, (b)
     reacting the neutralized chloroacetic acid with 1,2-diaminocyclohexane at
     < 80°C., (c) adding a non-metal amino or hydroxy base, (d) heating
     the aqueous mixture at < 100°C, (e) filtering the mixture, (f) treating the
     aqueous filtrate with hydrochloric acid until a precipitate forms, (g)
filtering the
     aqueous filtrate, and (h) recovering CDTA and optionally redissolving the
     1,2-diaminocyclohexanetetraacetic acid in an aqueous solution and repeating
steps

(c) to (g).

TI   Ligand-modified cellulose product
AN   2002:216117   CAPLUS
DN   136:249248
TI   Ligand-modified cellulose product
IN   Maas, Antonius Franciscus; Urpilainen, Ulla; Ruppert, Oliver
PA   Noviant Oy, Finland
SO   Eur. Pat. Appl., 6 pp.
      CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1188772	A2	20020320	EP 2001-660148	20010815
EP 1188772	A3	20021204		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO				
			FI 2000-2039	A 20000915
FI 2000002039	A	20020316	FI 2000-2039	20000915
US 6586587	B1	20030701	US 2002-86627	20020304
			FI 2000-2039	A 20000915
BR 2002000773	A	20031021	BR 2002-773	20020313
			FI 2000-2039	A 20000915

AB   The product comprises cellulose ether, ≥1 salt of calcium, and at
      least one ligand as a chelating agent, e.g., nitrilotriacetic acid, EDTA.
      The product can be used e.g. in drilling fluids.

TI   Synthesis and study of 1,2-cyclohexylenedinitrilotetraacetic acid
AN   2001:844768   CAPLUS
DN   136:296484
TI   Synthesis and study of 1,2-cyclohexylenedinitrilotetraacetic acid
AU   Xu, Ying; Cao, Jun; Jin, Qiao
CS   Investment Planing Center of Fushun, Fushun, 113006, Peop. Rep. China
SO   Shiyou Huagong Gaodeng Xuexiao Xuebao (2001), 14(3), 36-39
      CODEN: SHGXEC; ISSN: 1006-396X
PB   Shiyou Huagong Gaodeng Xuexiao Xuebao Bianjibu
DT   Journal
LA   Chinese
AB   The preparation methods of 1,2-cyclohexylenedinitrilotetraacetic acid (DCTA)
      are discussed in detail when cyclohexadiamine is used as the material, and
      the effect of reaction temperature, reaction time, the molar ratio of the
      material on the yield is investigated by the orthogonal design. The
      optimum reaction conditions are obtained: n(1,2-cyclohexanediamine):
      n(chloro acetic acid) = 1:6; The reaction temperature is 50°, the
      reaction time is 7 h. With low costs, mild reaction conditions, this
      process provides a new method for the deep processing of
      1,2-cyclohexanediamine. The performance figures of this product have
      reached or exceeded the quality standard of the input reagent; the chemical
      property of DCTA and EDTA are compared by the application test, and the
      result shows that the quality of DCTA product is reliable and stable and
      the performance is fine. Thus it can be used as substitution of EDTA in
      the chemical industry.

TI   Surface regeneration of biosensors using a combination of solutions based
      on interaction-specific optimized processes
AN   1999:784331   CAPLUS
DN   132:20747
TI   Surface regeneration of biosensors using a combination of solutions based

```
         on interaction-specific optimized processes
IN    Andersson, Karl; Hamalainen, Markku; Malmqvist, Magnus; Roos, Hakan
PA    Biacore AB, Swed.
SO    PCT Int. Appl., 133 pp.
      CODEN: PIXXD2
DT    Patent
LA    English
FAN.CNT 1
      PATENT NO.            KIND   DATE         APPLICATION NO.           DATE
      ---------------      ----   --------     --------------------      --------
PI    WO 9963333            A1     19991209     WO 1999-SE921             19990531
         W:  AU, JP, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
                                                US 1998-87402         A   19980529
      US 6289286            B1     20010911     US 1998-87402             19980529
      AU 9946658            A1     19991220     AU 1999-46658             19990531
      AU 755181             B2     20021205
                                                US 1998-87402         A   19980529
                                                WO 1999-SE921         W   19990531
      EP 1082607            A1     20010314     EP 1999-930044            19990531
         R:  BE, CH, DE, FR, GB, LI, NL, SE, FI
                                                US 1998-87402         A   19980529
                                                WO 1999-SE921         W   19990531
      JP 2002517720         T2     20020618     JP 2000-552490            19990531
                                                US 1998-87402         A   19980529
                                                WO 1999-SE921         W   19990531
```

AB   Surface regeneration of affinity biosensors and characterization of
      biomols. associated therewith by multivariate technique employing cocktails
      of regeneration agents to optimize regeneration of biosensor surface
      and/or characterize biomols. associated therewith. Kits and stock solns. for
      use in the context of this invention, as well as associated computer
      algorithms are also disclosed. Stock solns. of regeneration cocktails are
      prepared and combined. Solns. are acidic, basic, ionic, organic, detergent and
      chelating agent containing Biosensors for various affinity bindings are
      regenerated by the method; the affinity reactions are used for optimizing
      the regeneration process. Immuno-reactions, nucleic acid hybridization,
      avidin/streptavidin-biotin, hormone-hormone receptor interactions are
      performed with Biocore instruments and CM5 sensor chips.
RE.CNT 5   THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15   ANSWER 5 OF 7 CAPLUS   COPYRIGHT 2004 ACS on STN
TI   Synthesis of certain multidentate benzimidazole-derived ligands
AN   1994:217419 CAPLUS
DN   120:217419
TI   Synthesis of certain multidentate benzimidazole-derived ligands
AU   Sivagnanam, Usha; Pandiyan, Thangarasu; Palaniandavar, Mallayan
CS   Dep. Chem., Bharathidasan Univ., Tiruchirapalli, 620 024, India
SO   Indian Journal of Chemistry, Section B: Organic Chemistry Including
      Medicinal Chemistry (1993), 32B(5), 572-6
      CODEN: IJSBDB; ISSN: 0376-4699
DT   Journal
LA   English
GI

    * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB   Synthetic procedures are described for obtaining various multidentate
      ligands incorporating benzimidazole moieties. The benzimidazoles were

obtained by the condensation of acids with o-phenylenediamines. Syntheses are reported for N,N-bis(1-methylbenzimidazol-2-ylmethyl)amine (I; X = CH2NMeCH2), N,N'-bis(1-methylbenzimidazol-2-ylethyl)ethylenediamine (I; X = CH2CH2NHCH2CH2NHCH2CH2), N,N,N',N'-tetrakis(benzimidazol-2-ylmethyl)-1,2-diaminocyclohexane (II; R = H) N,N,N',N'-tetrakis(4-methylbenzimidazol-2-ylmethyl)-1,2-diaminocyclohexane (II; R = Me), HOOC(CH2)mSCH2CH2S(CH2)nSCH2CH2S(CH2)mCOOH [n = 2, m = 1; n = 2, m = 2; n = 3, m = 1], bisbenzimidazole III (n = 2, m = 1; n = 2, m = 2; n = 3, m = 1; n = 3, m = 2), HO2CCH2(SCH2CH2)4SCH2CO2H, and bisbenzimidazole IV.

L15 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
TI   Tetrad effect in lanthanides: extrastabilization and ligand characteristics
AN   1993:203961 CAPLUS
DN   118:203961
TI   Tetrad effect in lanthanides: extrastabilization and ligand characteristics
AU   Limaye, S. N.; Kopyrin, A. A.; Saxena, M. C.
CS   Rare Elem. Dep., Leningrad Tech. Inst., Leningrad, 198013, USSR
SO   Journal of the Institution of Chemists (India) (1991), 63(6), 215-16
     CODEN: JOICA7; ISSN: 0020-3254
DT   Journal
LA   English
AB   Tetrad or double-double effect in lanthanide (4f) elements is said to be due to nephelauxetic effect or the change in the inter-electronic repulsion Racah parameters as a result of complexation. A probable role of ligand (or donor atoms) characteristics, in the magnitude of tetrad effect was studied for a series of ligands.

L15 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
TI   Polarographic determination of diffusion coefficients of hydrogen peroxide and iron chelates and rate constants of hydroxyl radical reactions
AN   1973:47906 CAPLUS
DN   78:47906
TI   Polarographic determination of diffusion coefficients of hydrogen peroxide and iron chelates and rate constants of hydroxyl radical reactions
AU   Borggaard, Ole K.
CS   Chem. Lab. D, R. Dan. Sch. Pharm., Copenhagen, Den.
SO   Acta Chemica Scandinavica (1947-1973) (1972), 26(8), 3393-4
     CODEN: ACSAA4; ISSN: 0001-5393
DT   Journal
LA   English
AB   In aqueous solns. with ionic strength 0.20M, the diffusion coeffs. (in units of 10-6 cm2/sec) at 10, 20, and 40°, resp., are : H2O2, 8.8, 13.5, 22.0; Fe3+, 2.76, 4.30, 7.05; chelate of Fe(III) with EDTA, N-(2-hydroxyethyl)ethylene-diamine-N,N',N'-triacetic acid (HEDTA), nitriloacetic acid (NTA), or trans-1,2-cyclohexanediamine-N,N,N',N'-tetraacetic acid CyDTA), 3.02, 4.61, 7.58. In aqueous solns. with 1.0M HClO4 at 20°, the absolute rate consts. for the reactions of OH radicals with acrylonitrile, EDTA, HEDTA, NTA, CyDTA, AcOH, and ClCH2CO2H were k (in units of 107 (M sec)-1) = 340, 420, 360, 68, 380, 1.9, and 2.3, resp.

=> d his

     (FILE 'HOME' ENTERED AT 10:42:44 ON 18 AUG 2004)

     FILE 'REGISTRY' ENTERED AT 10:42:55 ON 18 AUG 2004
L1   STRUCTURE UPLOADED
L2   0 SEARCH L1 SSS SAM
L3   0 SEARCH L1 SSS FULL
L4   STRUCTURE UPLOADED
L5   0 SEARCH L4 SSS SAM

```
L6              0 SEARCH L4 SSS FULL
L7                STRUCTURE UPLOADED
L8              7 SEARCH L7 SSS SAM
L9                STRUCTURE UPLOADED
L10             3 SEARCH L9 SSS SAM
L11           115 SEARCH L9 SSS FULL
                  E CHLOROACETIC ACID/CN
L12             1 E3


      FILE 'CAPLUS' ENTERED AT 10:59:12 ON 18 AUG 2004
L13          1731 L11
L14          8864 L12
L15             7 L13 AND L14

=> save temp l13 chelators/a
ANSWER SET L13 HAS BEEN SAVED AS 'CHELATORS/A'

=> save temp all chltrprcs/l
L# LIST L1-L15 HAS BEEN SAVED AS 'CHLTRPRCS/L'

=> logoff hold
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.96	499.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.15	-5.15

```
 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:03:38 ON 18 AUG 2004

Connecting via Winsock to STN




Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:16:29 ON 18 AUG 2004
FILE 'CAPLUS' ENTERED AT 11:16:29 ON 18 AUG 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.96	499.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.15	-5.15

```
=> logoff hold
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	22.41	500.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.15	-5.15

COST IN U.S. DOLLARS		SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST		22.41	500.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE		-5.15	-5.15

```
=> dhsi
L16            1 DHSI

=> d his

     (FILE 'HOME' ENTERED AT 10:42:44 ON 18 AUG 2004)

     FILE 'REGISTRY' ENTERED AT 10:42:55 ON 18 AUG 2004
L1             STRUCTURE UPLOADED
L2           0 SEARCH L1 SSS SAM
L3           0 SEARCH L1 SSS FULL
L4             STRUCTURE UPLOADED
L5           0 SEARCH L4 SSS SAM
L6           0 SEARCH L4 SSS FULL
L7             STRUCTURE UPLOADED
L8           7 SEARCH L7 SSS SAM
L9             STRUCTURE UPLOADED
L10          3 SEARCH L9 SSS SAM
L11        115 SEARCH L9 SSS FULL
               E CHLOROACETIC ACID/CN
L12          1 E3


     FILE 'CAPLUS' ENTERED AT 10:59:12 ON 18 AUG 2004
L13       1731 L11
L14       8864 L12
L15          7 L13 AND L14
               SAVE TEMP L13 CHELATORS/A
               SAVE TEMP ALL CHLTRPRCS/L
L16          1 DHSI

=> l11/prep
        1731 L11
     3184864 PREP/RL
L17         86 L11/PREP
               (L11 (L) PREP/RL)
```

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=> l17 and l14
L18            2 L17 AND L14

=> d l18 1-2n ti
'1-2N' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs
```

To display a particular field or fields, enter the display field
codes. For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO. You may specify the format fields in any order and the
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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,

FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l18 1-2 ti

L18 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI   Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid for
     use as stabilizer for hydroxylamine compounds

L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI   Synthesis and study of 1,2-cyclohexylenedinitrilotetraacetic acid

=> d l18 2 ti fbib abs

L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI   Synthesis and study of 1,2-cyclohexylenedinitrilotetraacetic acid
AN   2001:844768 CAPLUS
DN   136:296484
TI   Synthesis and study of 1,2-cyclohexylenedinitrilotetraacetic acid
AU   Xu, Ying; Cao, Jun; Jin, Qiao
CS   Investment Planing Center of Fushun, Fushun, 113006, Peop. Rep. China
SO   Shiyou Huagong Gaodeng Xuexiao Xuebao (2001), 14(3), 36-39
     CODEN: SHGXEC; ISSN: 1006-396X
PB   Shiyou Huagong Gaodeng Xuexiao Xuebao Bianjibu
DT   Journal
LA   Chinese
AB   The preparation methods of 1,2-cyclohexylenedinitrilotetraacetic acid (DCTA)
     are discussed in detail when cyclohexadiamine is used as the material, and
     the effect of reaction temperature, reaction time, the molar ratio of the
     material on the yield is investigated by the orthogonal design. The
     optimum reaction conditions are obtained: n(1,2-cyclohexanediamine):
     n(chloro acetic acid) = 1:6; The reaction temperature is 50°, the
     reaction time is 7 h. With low costs, mild reaction conditions, this
     process provides a new method for the deep processing of
     1,2-cyclohexanediamine. The performance figures of this product have
     reached or exceeded the quality standard of the input reagent; the chemical
     property of DCTA and EDTA are compared by the application test, and the
     result shows that the quality of DCTA product is reliable and stable and
     the performance is fine. Thus it can be used as substitution of EDTA in
     the chemical industry.

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COST IN U.S. DOLLARS   SINCE FILE   TOTAL
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FULL ESTIMATED COST   31.86   509.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
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FULL ESTIMATED COST	31.86	509.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.88	-5.88

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.86	509.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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STN INTERNATIONAL SESSION SUSPENDED AT 11:54:59 ON 18 AUG 2004

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PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
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FULL ESTIMATED COST	31.86	509.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.88	-5.88

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.86	509.48

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CA SUBSCRIBER PRICE	-5.88	-5.88

STN INTERNATIONAL LOGOFF AT 11:55:26 ON 18 AUG 2004